

Warm Up answers:

a) $P(80 < X < 85) = 2.73\%$

b) $P(X < 60) = 2.96\%$

c) $P(77 < X < 87) = 9.26\% = 0.0926$

d) $P(X > 93) = 7.14 \times 10^{-6}$

e) $Q3 = 75\%$ of data below
 $P(X < ?) = 75\%$
 $? = 73.57$

f) $P(X > ?) = 30\%$
 $? = 72.78$

$7.14 \times 10^{-4} \%$

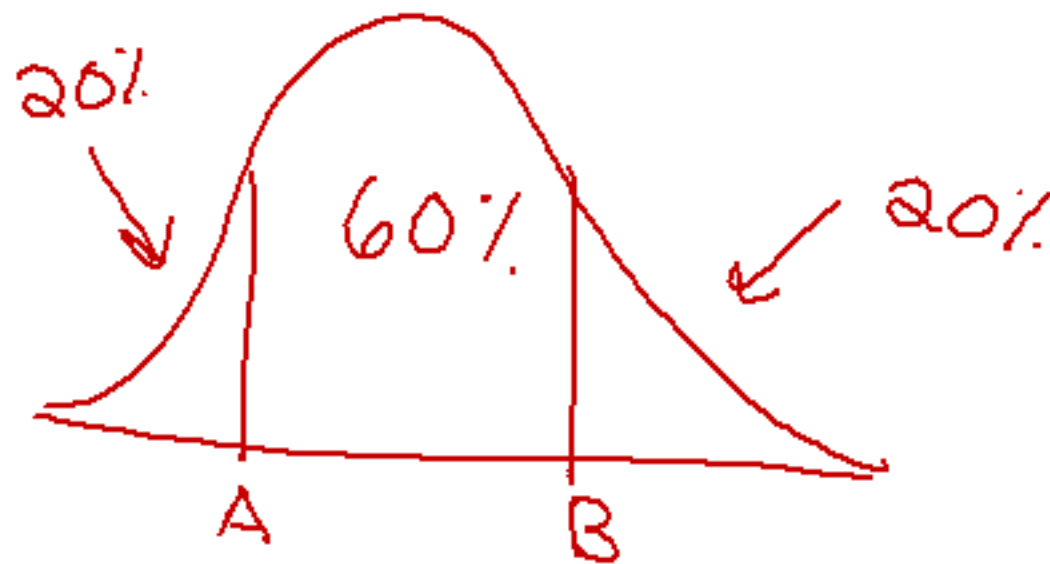


$\text{invnorm}(0.7, 70, 5.3)$

g) middle 60%

$$A = \text{invnorm}(0.2, 70, 5.3) = 65.54$$

$$B = \text{invnorm}(0.8, 70, 5.3) = 74.46$$



$$\cdot IQR = 50\%$$

HW worksheet answers:

1) a) $P(X < 1410) = 11.51\%$

b) $P(X > 1550) = 25.25\%$

c) $P(1563 < X < 1648) = 17.62\%$

d) $P(X > ?) = 15\%$
 $? = 1577.73$ hours

4)
~~2)~~ a) $P(X > 12) = 65.54\%$

b) $P(X > ?) = 75\%$
 $? = 11.86$ oz.

$$c) IQR = Q3 - Q1$$

middle 50%.

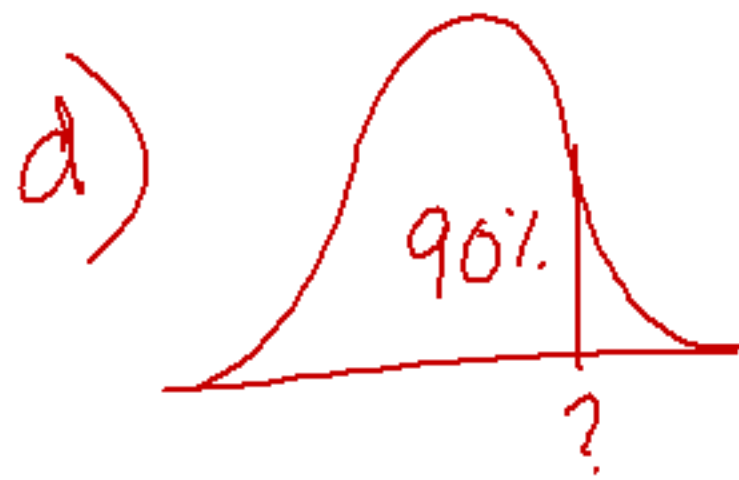


% below	\bar{x}	s
↓	↓	↓

$$Q3 = \text{invnorm}(0.75, 12.2, 0.5) = 12.54$$

$$Q1 = \text{invnorm}(0.25, 12.2, 0.5) = 11.86$$

$$\underline{\underline{0.68\sigma}}$$



$\text{invnorm}(0.9, 12.2, 0.5)$

$= 12.84 \text{ oz}$

